

FIG. 1

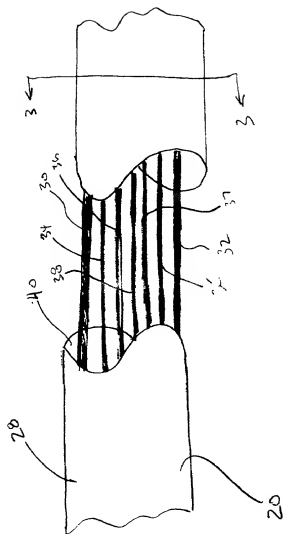
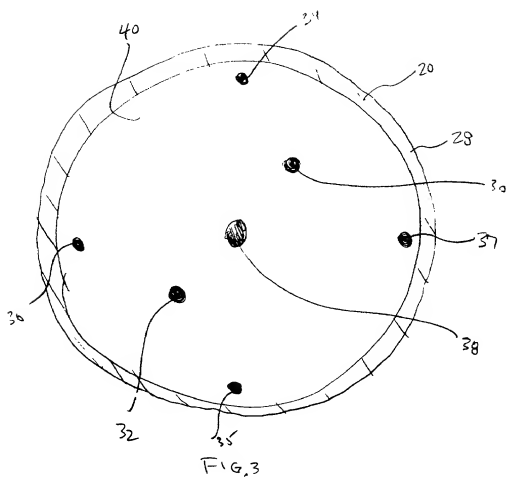
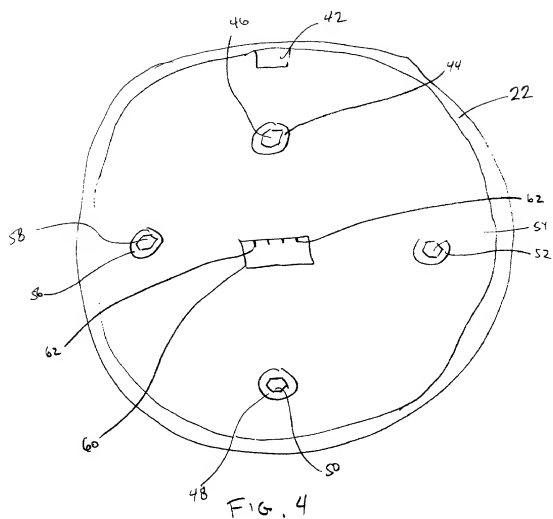


FIG. 2





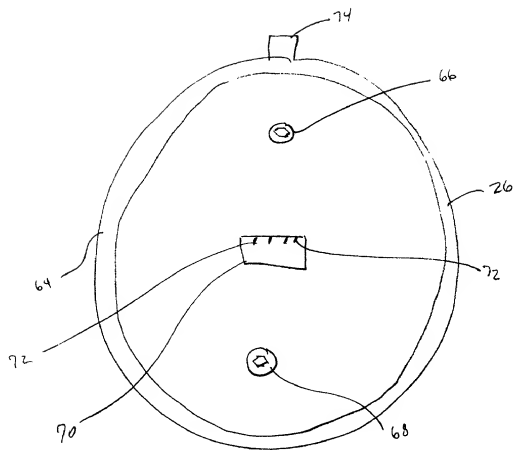


FIG. 5

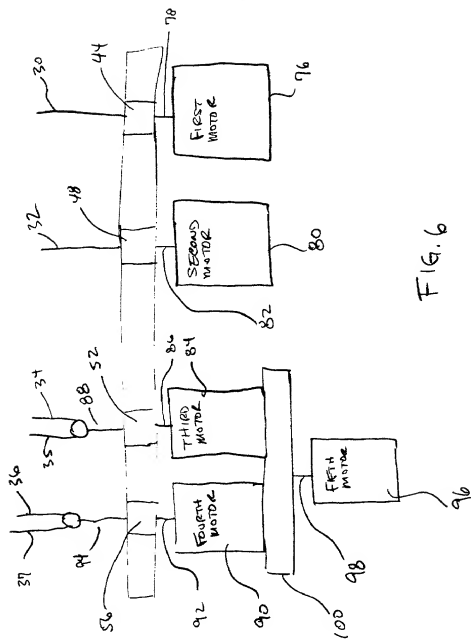
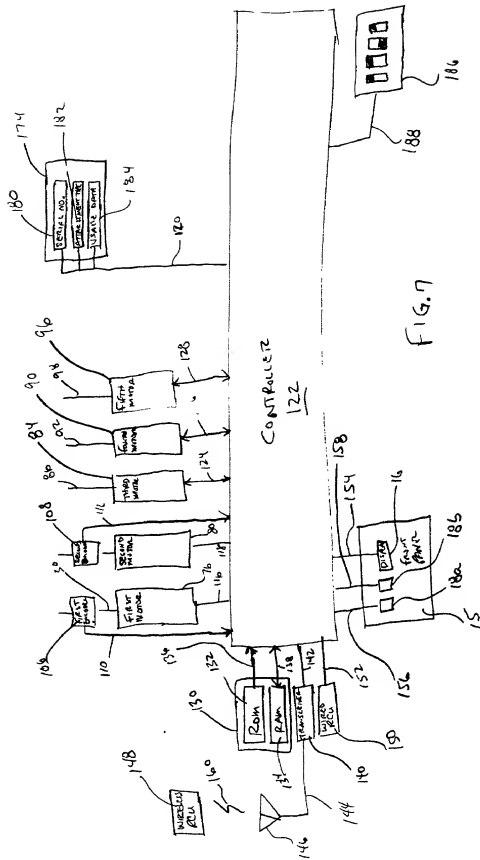


FIG. 6



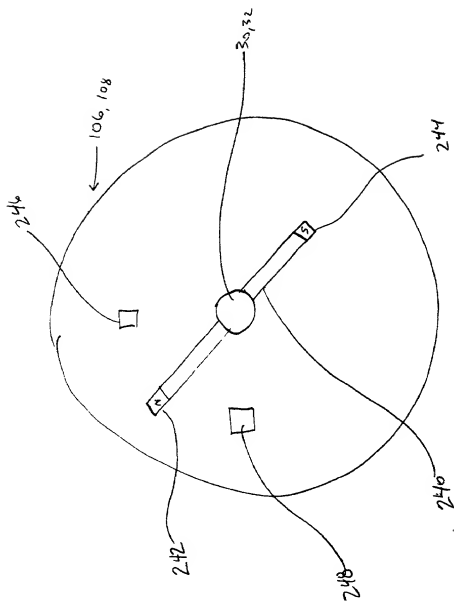


FIG. 8

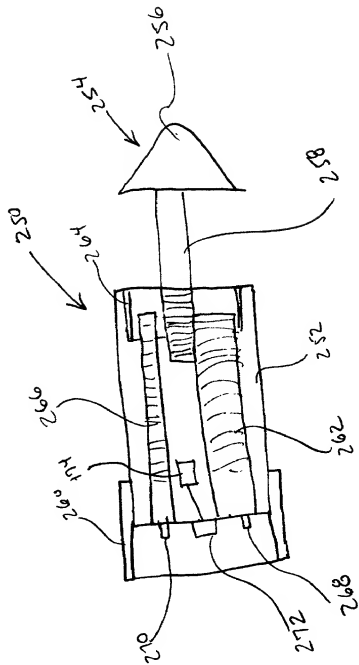


Fig. 9A

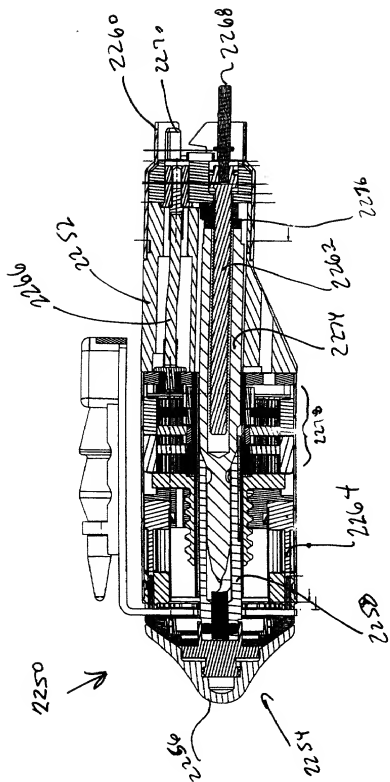


Figure 9B

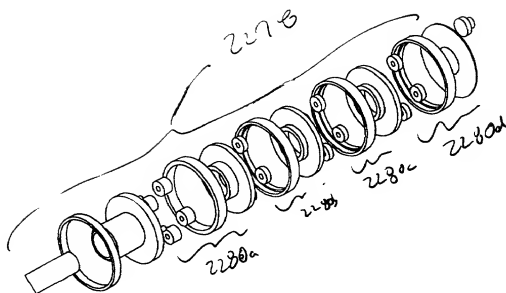


FIG. 9C

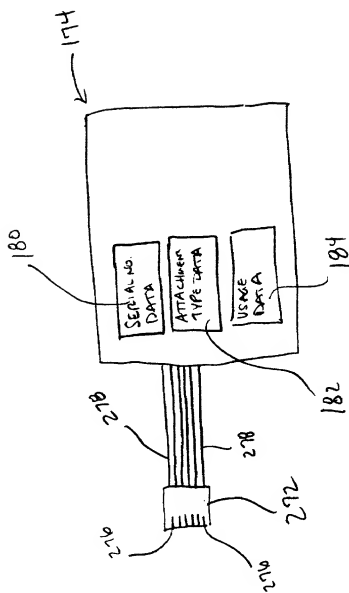
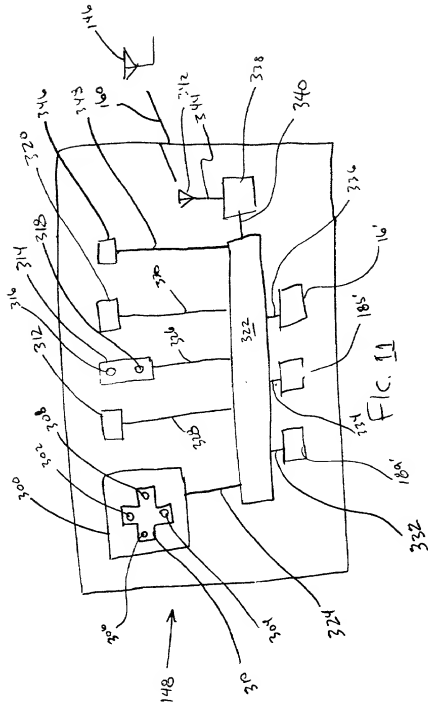
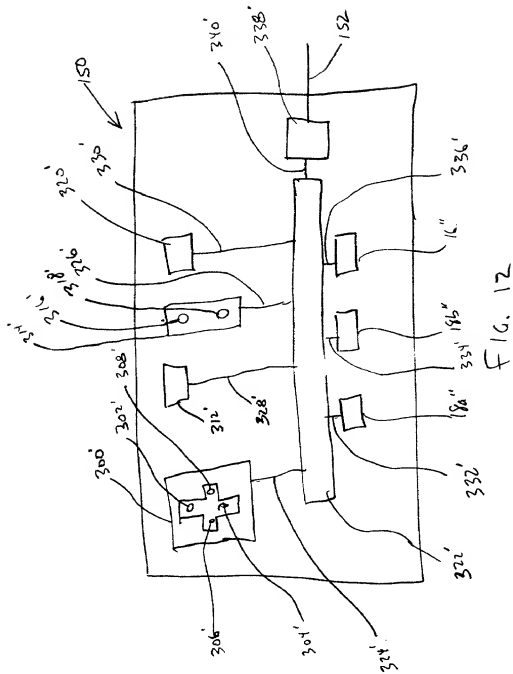


FIG. 10





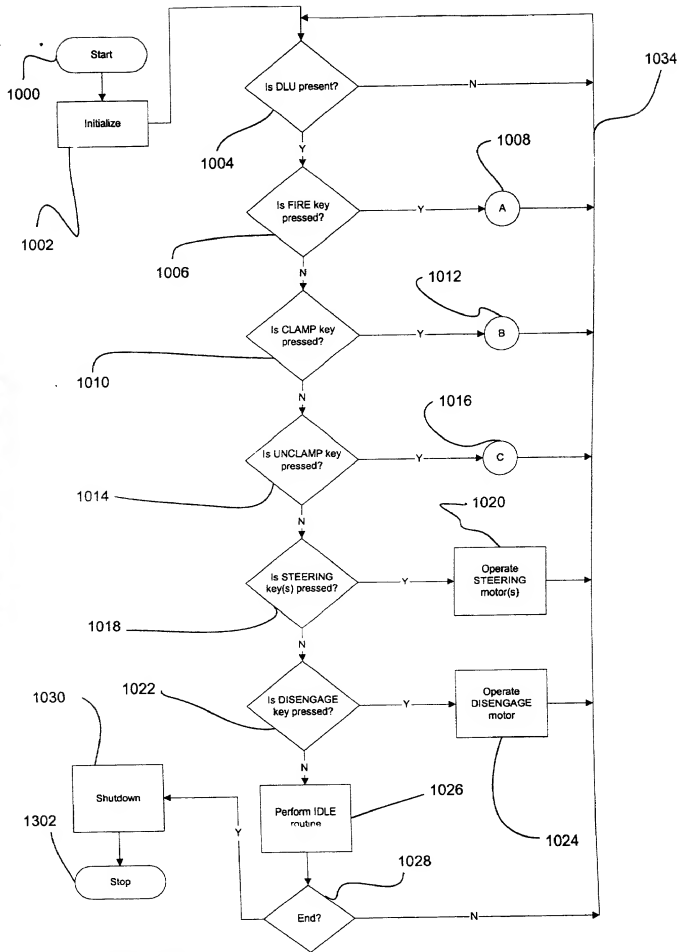


Figure 13

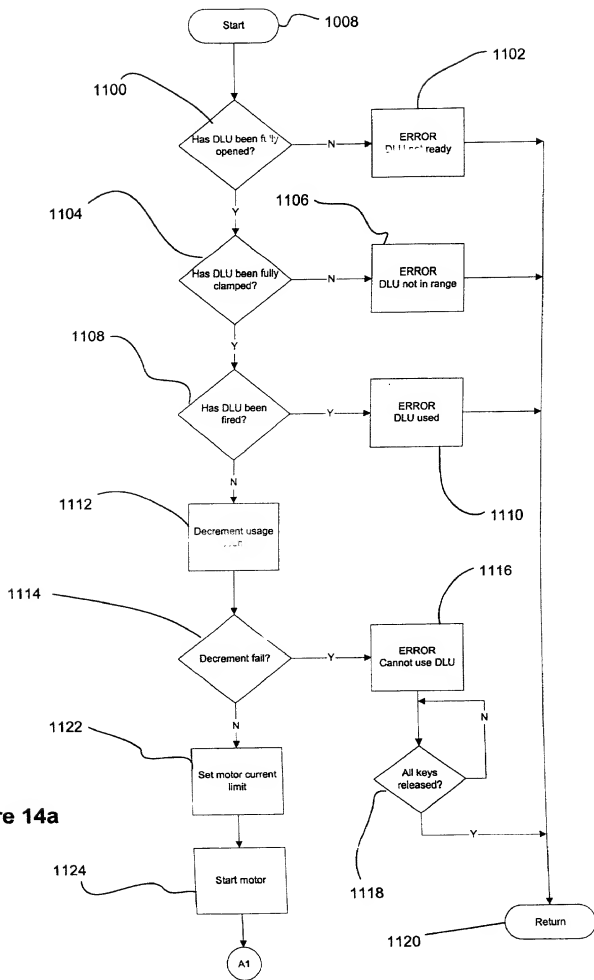


Figure 14a

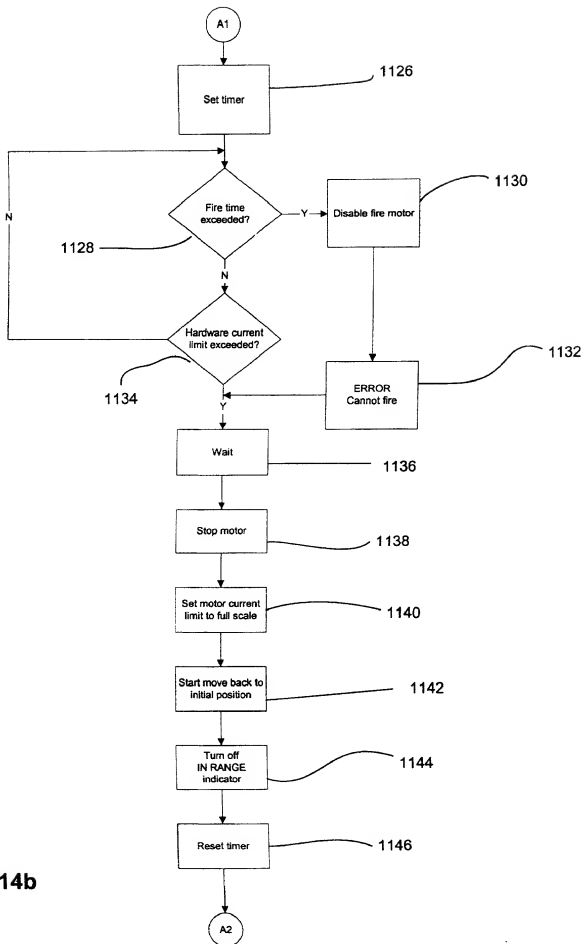


Figure 14b

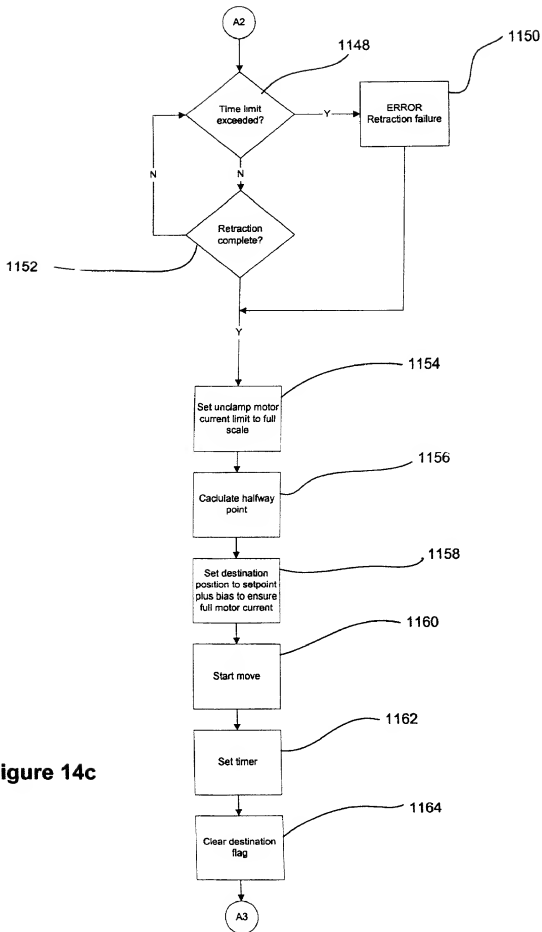
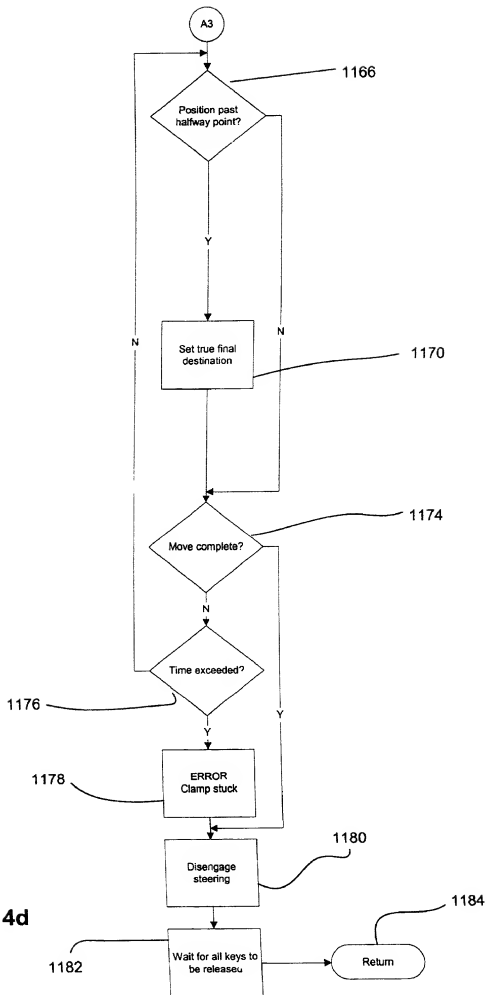


Figure 14c

**Figure 14d**

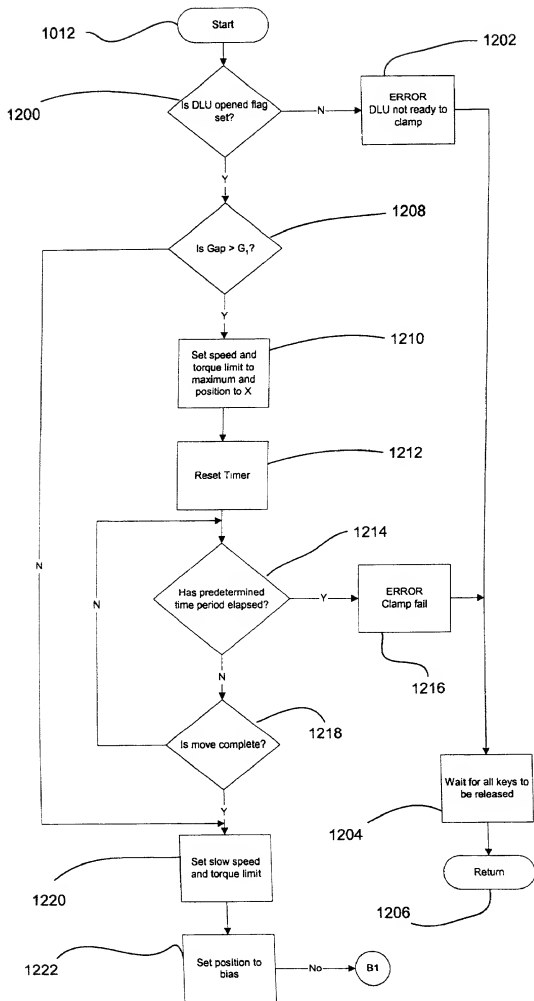
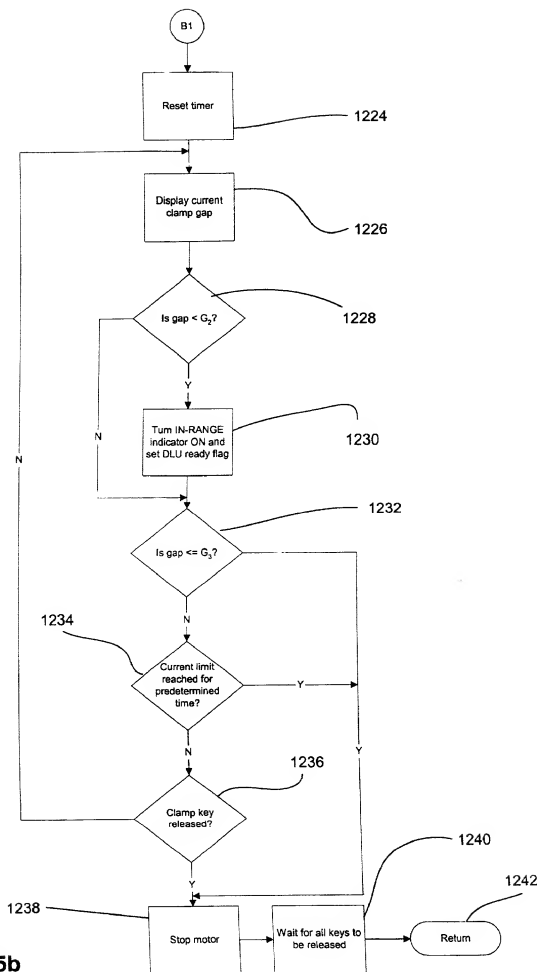


Figure 15a

**Figure 15b**

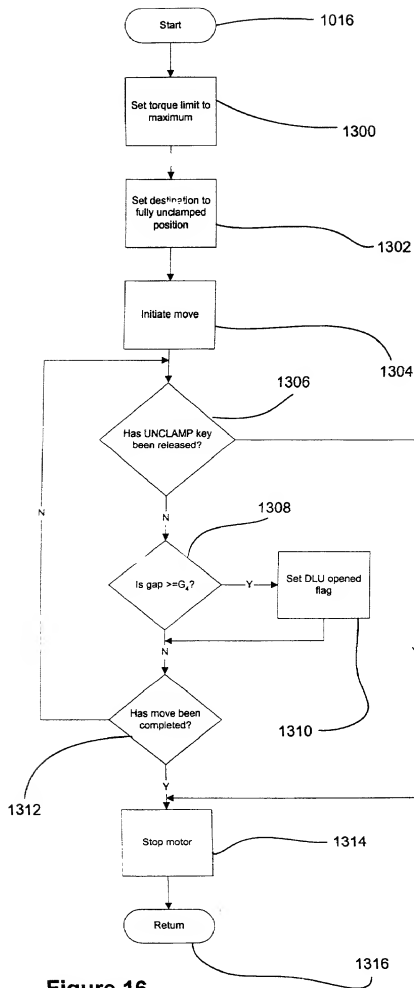


Figure 16

09887789.062204

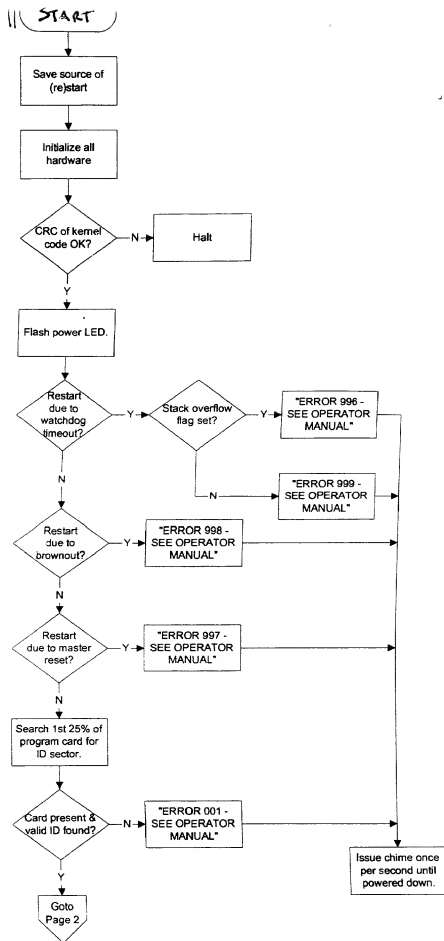


FIG. 17a

Search program
card for LCD
prompts in
language specified
by DIP switches

Prompts
found?

N → "ERROR 001 -
SEE OPERATOR
MANUAL"

Issue chime once
per second until
powered down.

Y →

Load prompts

Did prompts
load correctly?

N → "ERROR 003 -
SEE OPERATOR
MANUAL"

Issue chime once
per second until
powered down.

Y →

Display "PRESS
REMOTE ON TO
START"

Speak "Press
remote on to start"

Wait for ON button
on remote to be
pressed and
released.

Power LED on
continuously.

Save ID of remote

Used DLU
connected?

N →

Perform self tests.
(selfTest())

Y →

Reset fault counter
and speak
"ATTACH NEW
DLU"

Goto
Page 3

FIG. 17b

0000789 06201
T02290 6878860

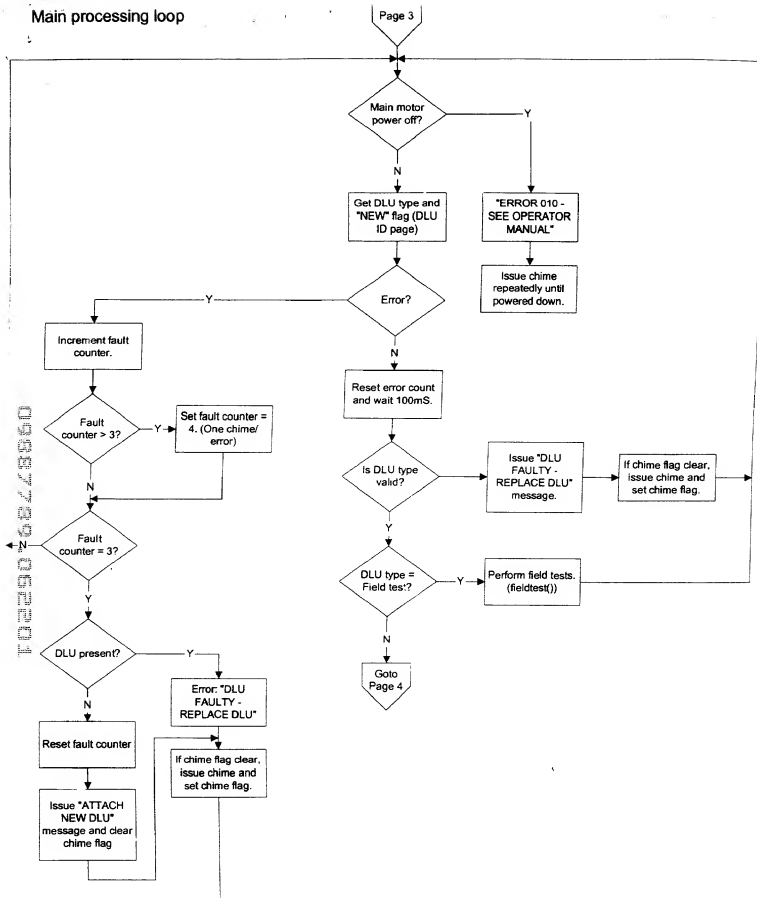


FIG. 17c

102290 6878360

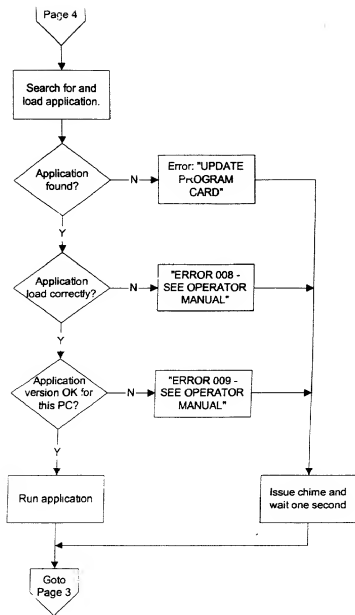


FIG. 17d

102290 687890

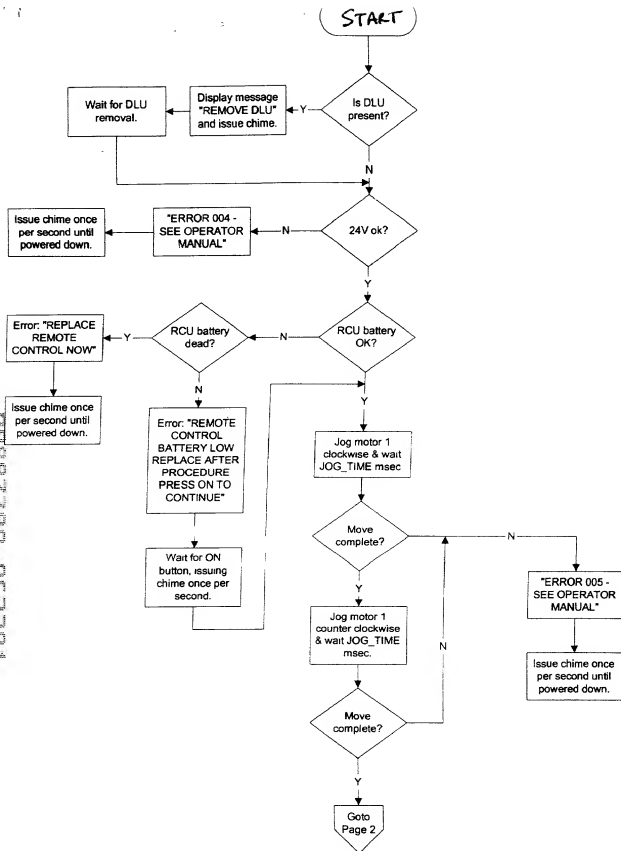


FIG. 18a

09887789.062201

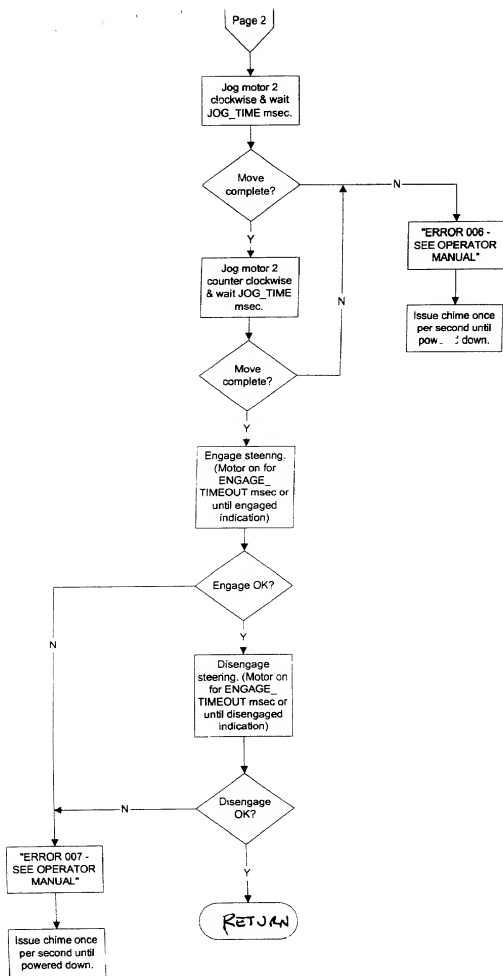


FIG. 186

0938739.062201

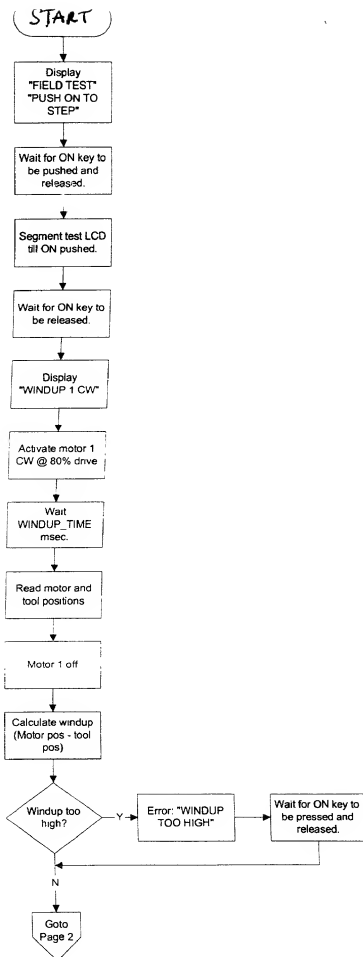


FIG. 19a

09087739-062201

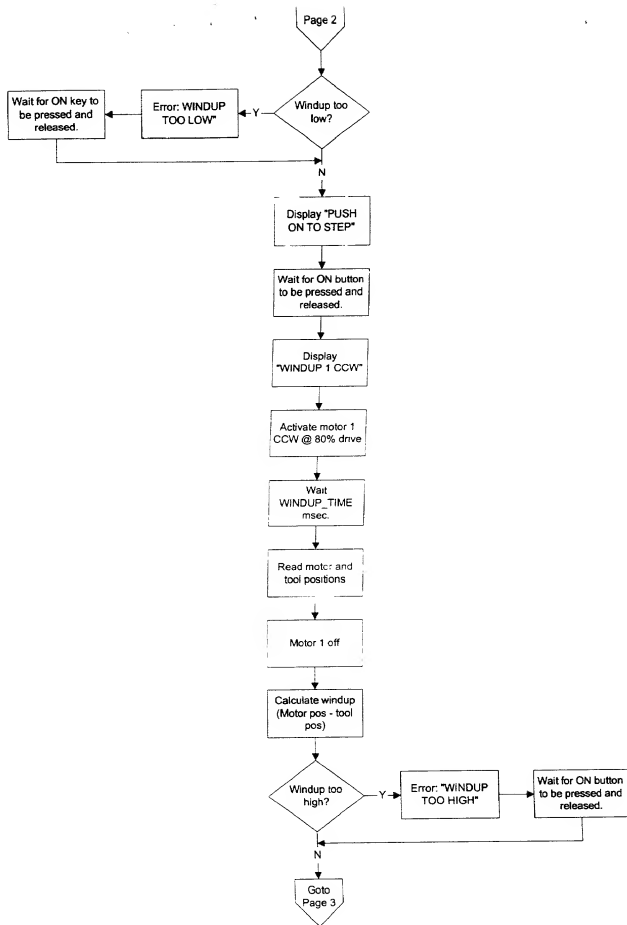


FIG. 196

09887789-062204

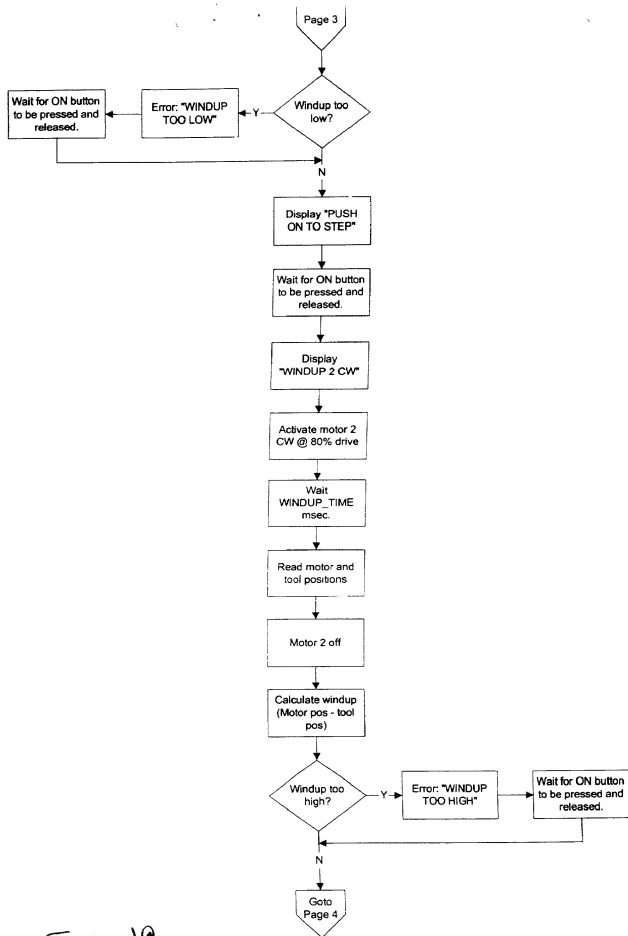


FIG. 19c

102250-6878860

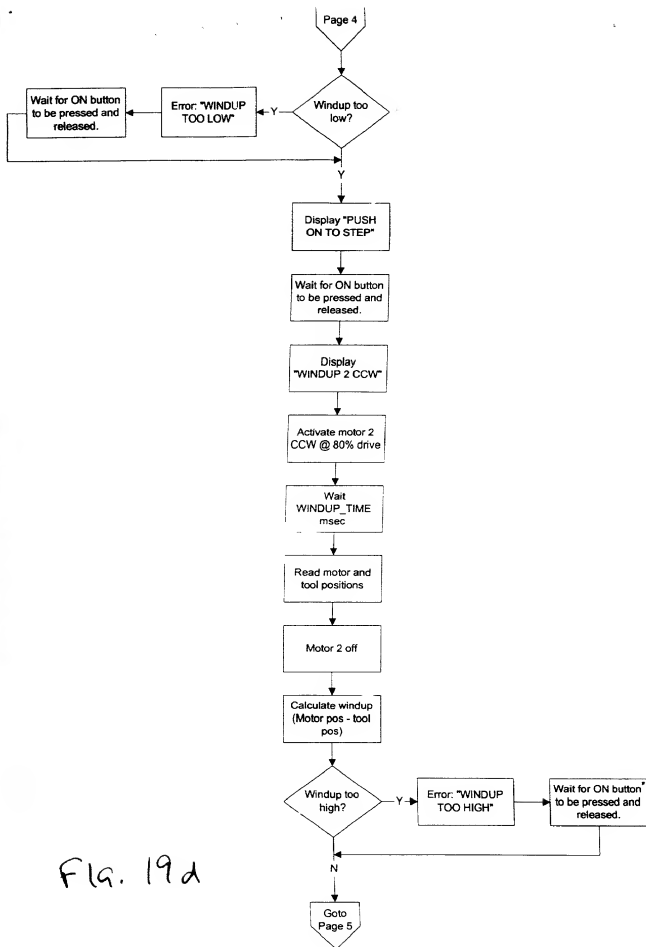


Fig. 19d

09887789-062204

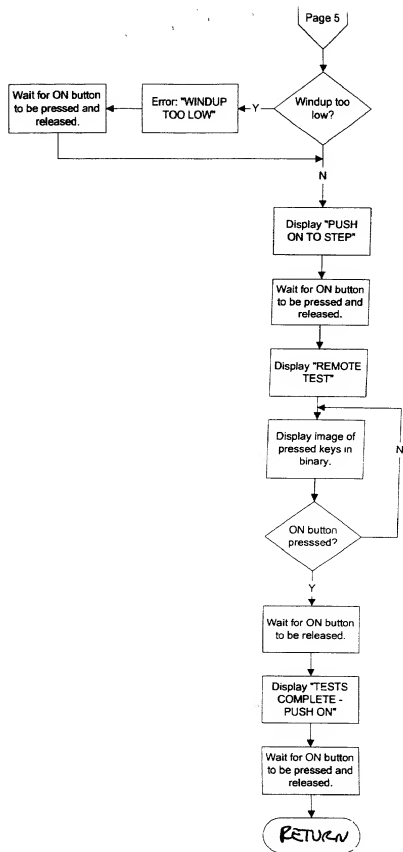


FIG. 19c

0988789-06201

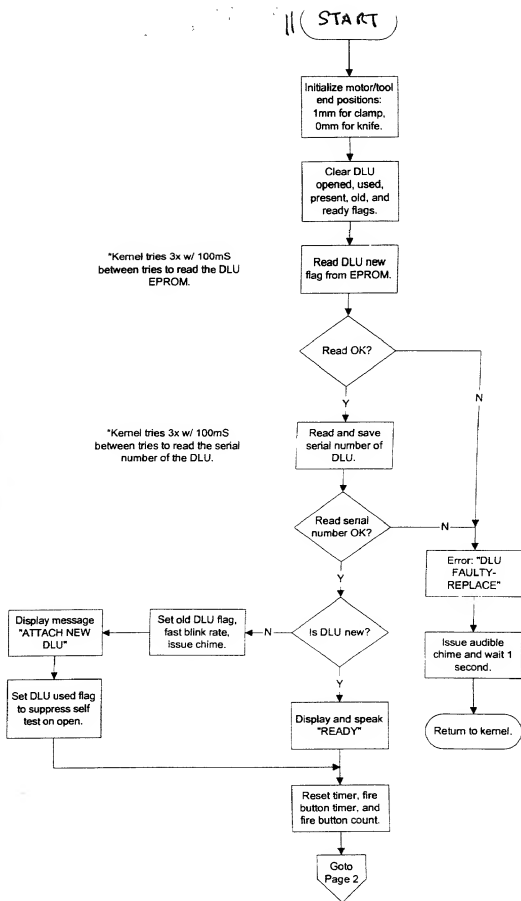


FIG. 20a

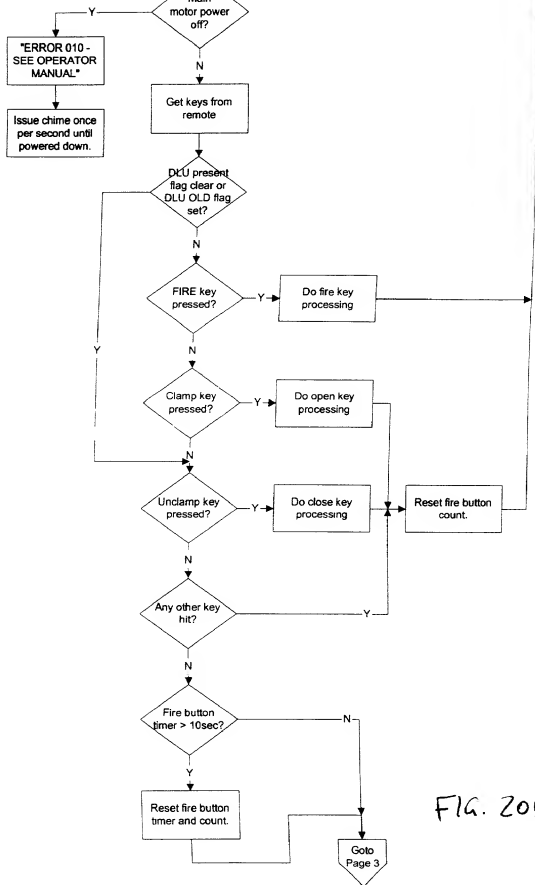
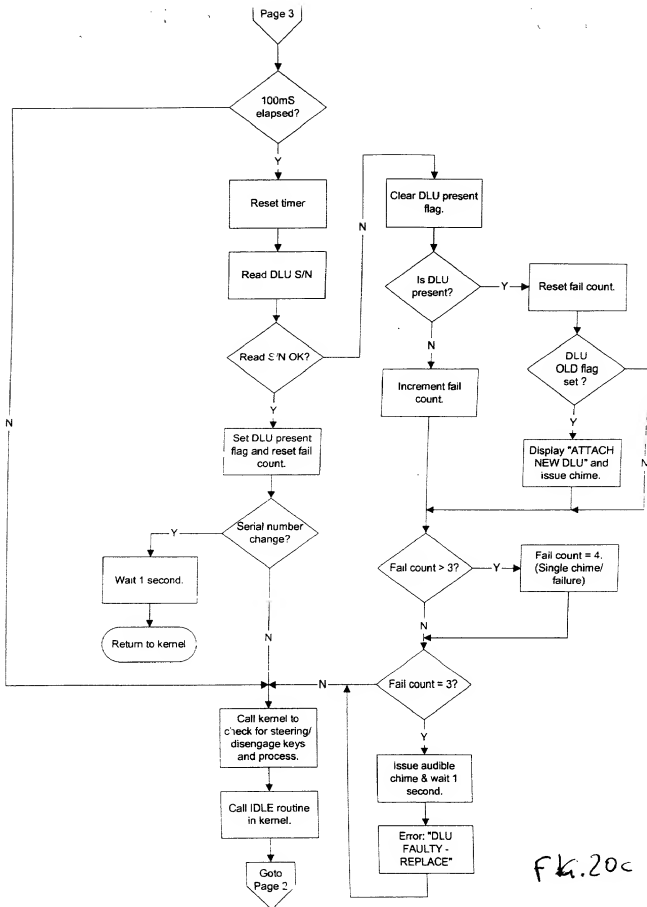


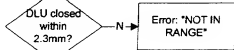
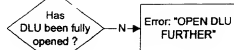
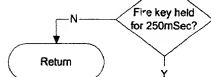
FIG. 206

0686789*062201

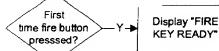
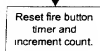
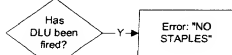
09887389-062201



START



*Try 3x w/ 100mS time between tries to read DLU. If this fails, issue message and exit. The retries are performed by the kernel.



*Try 3x w/ 100mS time between tries to decrement DLU. The retries are performed by the kernel.

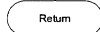
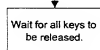
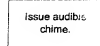
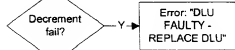
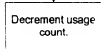
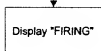
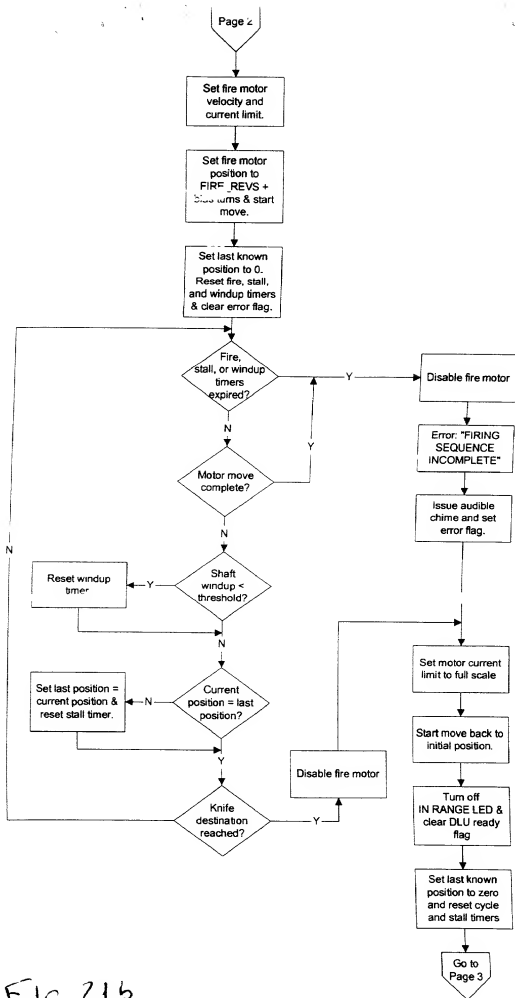


FIG. 21a

0988739-06201



Windup threshold is defined as
SHAFT_WINDUP_MAX

Fig. 21b

0988789.062201

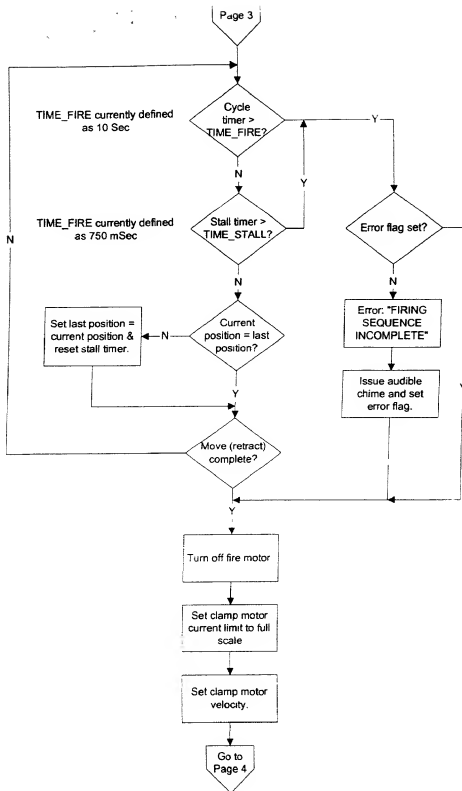


Fig. 21c

09887789-06204

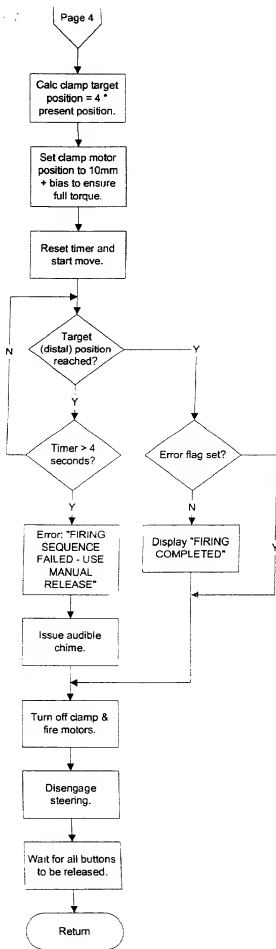
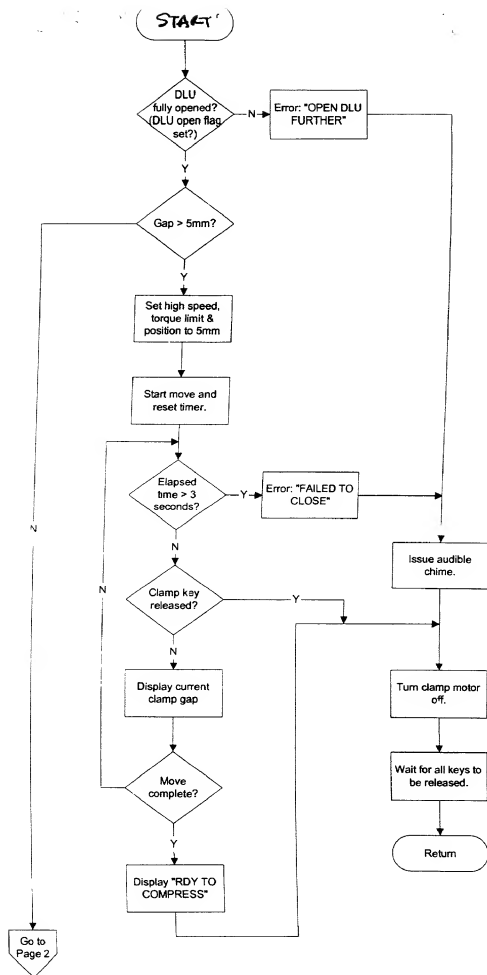


FIG. 21d

FIG. 22a



06887789.052201

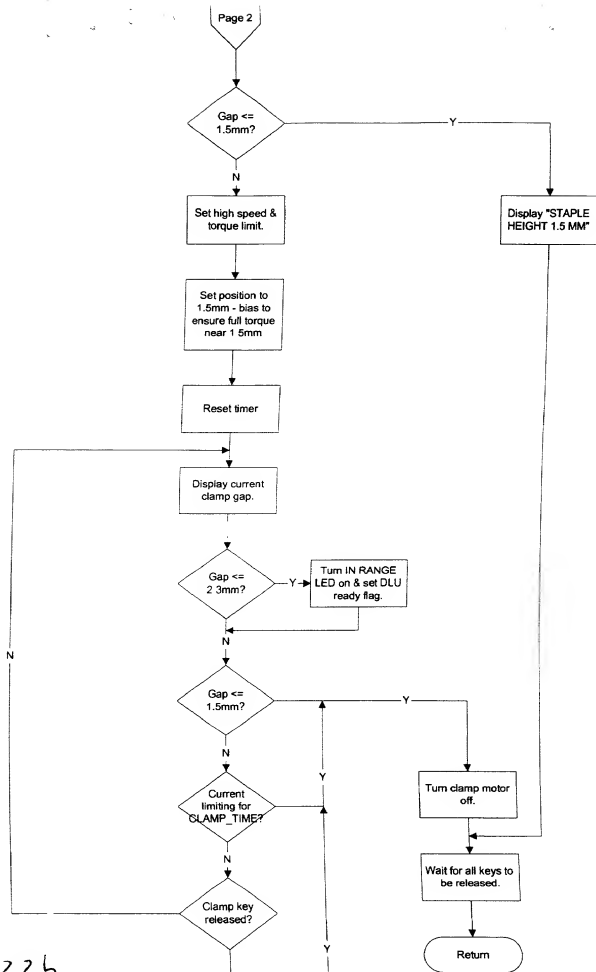


FIG. 22b

(START)

DLU
used flag
set?

N

Mark the DLU as
used.

Write to DLU
fail?

Y
Error: "DLU
FAULTY -
REPLACE DLU"

Issue audible
chime.

Wait for all keys to
be released.

Return

N
Set knife motor
torque to full scale,
velocity to 2500
RPM and position
to 8 shaft
revolutions.

Wait 250mSec or
move complete.

Time expired?

Y
"ERROR 006 -
SEE OPERATOR
MANUAL"

Issue chime once
per second until
power down.

N

Did
shaft move < 2
revs at distal
end?

N
Error: "REPLACE
FLEXSHAFT"

Issue audible
chime.

Return knife motor
to original position
and turn motor off.

Wait for all keys to
be released.

Return

Y
Return knife motor
to original position
and turn motor off.

Set DLU used flag.

Go to
Page 2

*The kernel tries 3x w/ 100mS time
between tries to write DLU.

062290-062201

Fla. 23a

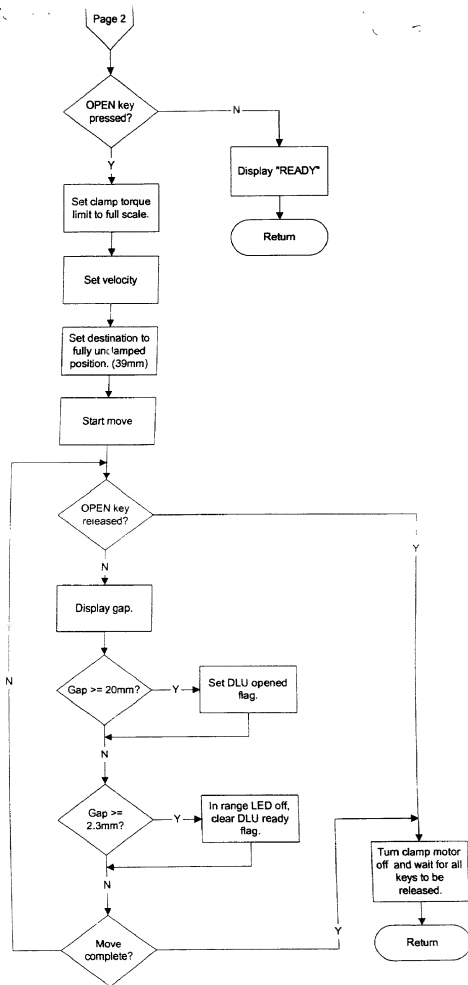


FIG. 23b

09887789.062201